

Union of Soviet
Socialist
Republics



The USSR State
Committee for
Inventions and
Discoveries

DESCRIPTION OF INVENTION

FOR THE INVENTOR'S CERTIFICATE

(61) Addendum to the Inventor's Certificate –
(22) Disclosed 06/25/69
(21) 1340252/23-04
with Application for Invention as Appendix No. –
(23) Priority -
Published 02/25/79. Bulletin No. 7
Date of description publication – 02/28/79

(11) 308622

(51) M. Kl.²
G03F 7/04

(53) UDC
777.111
(088.8)

(72) Authors of Invention M.S. Sadikova, O.I. Sopova, T.T. Dorogushina and S.A. Veterkova

(71) Applicant The All-Union Scientific and Research Institute of the Printing Industry

(54) PHOTSENSITIVE COPYING MATERIAL FOR GRAVURE PRINTING

A photosensitive copying material for gravure printing is well-known – photogravure pigment paper having a photosensitive copying layer containing gelatin and chromate. However, like any other paper, the backing of the pigment paper has a negative feature – linear deformation. The base paper has a surface texture which is reproduced by the pigmented gelatin layer and is further displayed on the gravure plate and printed sheet, which impairs its quality.

A photosensitive copying material for gravure printing is proposed which consists of a film, a gelatin sublayer and a photosensitive copying layer containing gelatin and chromate.

As the base any non-deforming film can be used, for example, triacetyl cellulose.

To provide the required adhesion of the pigment gelatin layer to the base film, the latter has a sublayer of the following content:

Gelatin	3-5 grams
Salicylic or phthalic acid	1.5-2.5 grams
Ethyl alcohol	150-170 milliliters
Acetone	170-190 milliliters
Water	100 milliliters

On the film prepared in the above manner, a photosensitive pigment gelatin layer of the following content is placed:

Gelatin	130-140 grams
Pigment	18-22 grams
Soap	12-15 grams
Ethyl alcohol	25-30 grams per liter
Glycerin	20-25 grams
Tartrazine	0.4-0.6 grams
Tartaric acid	1.5-2.5 grams
Ammonium monochromate	5-6 grams
Water	up to 1 liter

Based on the results of performed experiments, it has been established that the copying layer preserves its working quality for 6-7 months.

CLAIMS

1. Photosensitive copying material for gravure printing, characterized in that it consists of a film, a gelatin sublayer and a photosensitive copying layer containing gelatin and chromate.
2. Material according to Claim 1 characterized in that the sublayer consists of gelatin, salicylic acid, ethyl alcohol, acetone and water.

Compiled by E. Ramzova

Editor – T. Kolodtseva Technical Editor – O. Andreiko Proofreader – D. Melnichenko

Order 625/60

547 copies

By subscription

Central Scientific Research Institute for Patent Information and Technical-Economic Investigation
of the USSR State Committee for Inventions and Discoveries

113035 Moscow Zh-35, Raushskaya nab., 4/5

Branch PPP "Patent", Uzhgorod, ul. Pro'ektnaya, 4